

SECCRA Community Landfill

Earthwork CELL 8a

SECCRA Community Landfill

219 Street Rd

West Grove, PA 19390

ADDENDUM No. 2

April 6, 2022

- A. Addendum No. 2** is issued as part of the Contract Document, to inform and/or specify changes, which take precedence over information contained in the original Contract Documents. Unless otherwise specifically noted or specified hereinafter, or shown on drawings or schedules accompanying this Addendum, all work required by this Addendum shall conform to the applicable provisions of the Contract Documents. **It shall be the responsibility of the Respondent to include in their proposal any cost implications of this Addendum. All Respondents are to indicate on the form of proposal submitted by them, acknowledgement of receipt and compliance with the contents of this Addendum No. 2.**
- B.** Any provision in any of the Contract Documents, which may be in conflict or be inconsistent with the contents of this Addendum, shall be void to the extent of such conflict or inconsistency.
- C.** The following clarifications/answers are provided in response to questions provided by potential bidders: *Answers are bold and italicized.*
1. Will inclement weather days (out of the contractor's control) be excluded from the 180-calendar day project completion timeframe? ***No, a strict 180 calendar days is required due to operational needs of the Owner.***
 2. Will the contractor be responsible for the unloading or assistance required in the deployment of liner materials required by the owner's geosynthetic subcontractor? ***NO***
 3. Will the contractor be responsible for the furnishing of temporary toilets, sandbag fill materials, or temporary power required by the owner's geosynthetic subcontractor? ***NO***
 4. Can CAD files be provided? ***YES***
 5. Confirm pay item 2100 includes excavation, loading, hauling, and stockpiling of onsite material from the project LOD to a stockpile area as designated by the owner. ***As stated in Bid Document, confirmed.***
 6. Provide the quantity of excavation, loading, hauling, and stockpiling associated with the sediment trap removal that should be included under pay item 2110. ***As stated in the prebid, the Owner will not be providing a quantity for these items.***

7. Provide the quantity of excavation, loading, hauling, and stockpiling associated with the channel construction included under pay items 3300, 3310, and 3320. ***The Owner will not be providing quantity for these items.***
8. Conflict. Pay item 2100 describes quantity measurements for this item shall exclude excavation associated with the channel construction. Pay items 3300, 3310, and 3320 describe excavation that is required to construct permanent channels will be paid for under item 2100. Please advise. ***Pay Item Description 2100 will be revised to remove the section stating it excludes excavation for channel construction.***
9. Confirm pay item 2120 includes excavation, loading, hauling, conditioning, and placement of onsite material from with the project LOD. ***As stated in Bid Documents and at the prebid, material may come from the project area (First) or from a stockpile located onsite.***
10. Pay item 2120 mentions that all costs for soil conditioning associated with fill placement should be included by the contractor under this bid item. What reasonable measures or parameters can be agreed upon to create an even playing field for potential bidders? Two passes with a dozer mounted disc is industry standard for this operation. Leaving this specification open ended will not provide the Authority with competitive bids – only awarding this project to the contractor that is willing to assume the most risk. After all – this material is being supplied by the owner – so if satisfactory compaction cannot be achieved by conventional means – the burden should fall on the owner to provide a passing material. If the material was being supplied by the contractor for this operation (such as in the case of subbase), it would be reasonable for the Authority to require the contractor to assume the risk of providing a passing soil. ***All bidders have the opportunity to determine suitability of Owner-provided soils prior to placing a bid.***
11. How will the undercutting and replacement of unsuitable soils or subgrade be paid to the contractor? T&M or unit price? ***If undercutting is needed for existing soils, removal and replacement will be by Unit Cost. This does not include soils placed by the Contractor as part of the Bid or the first lift of fill already placed on the berm.***
12. Confirm the only testing required to be completed by the contractor for this project is one (1) passing subbase test. ***The Contractor must provide a submittal with acceptable testing, per the CQA Plan, to meet or exceed the requirements of subbase material. The Owner will do the field testing during construction.***
13. Confirm the contractor will not encounter previously placed waste under pay items 2140 or 3310. If waste is encountered, will the handling, removal, and hauling to the active face be paid T&M or unit price? ***The Owner will not confirm the Contractor will or will not encounter waste. All costs associated with Items 2140 and 3310 are to be included with Bid Item.***
14. Confirm the contractor will only be paid for the in-place compacted volume of protective cover soil installed on a SY basis. Waste, oversized materials, screening loss, and

compaction loss should all be factored into the contractor's pricing associated with pay items 2160 & 2161? ***As stated in Bid Document, confirmed.***

15. Confirm the contractor will only be paid for the in-place compacted volume of subbase installed on a SY basis. Waste, double handling, screening loss, and compaction loss should all be factored into the contractor's pricing associated with pay item 2130? ***As stated in Bid Document, confirmed.***
16. Confirm all stone, soil, pipe, and fittings (minus the subbase and PVC required for pay item 2800) will be furnished by the Authority. ***As stated in Bid Document, confirmed.***
17. Are there any low ground pressure requirements for running on the protective cover soil while installing the AASHTO #57 stone required under pay item 2170? Will 24" thick haul roads need to be maintained? ***Yes, refer to the Bid Documents.***
18. Will "edge of liner" markers be required to be installed by the contractor? If so, what bid item will this be paid under? ***NO***
19. Per detail 7 sheet 4 – confirm the existing phase 7 liner system was not "run out" past the intercell berm? This will require the berm and associated soil wedge to be completely removed prior to the liner tie-in operation detailed under pay item 2140. ***As stated in the Bid Document, the Contractor will need to expose the existing liner so the liner Contractor can weld to existing liner.***
20. Can the limits of asphalt paving be identified on a plan sheet? ***In general, a 24 ft. wide roadway will start on the east end of Cell 8a berm and proceed to the new tire wash. Actual location will be in the field.***
21. Will asphalt paving operations require a tack coat application? ***As stated in Bid Documents the Contractor is to follow PennDOT Publication 408***
22. Will asphalt paving operations require a tack or seal coat application to concrete curbing? ***See Item 21.***
23. Under what bid item(s) will the tie-in effort associated with the leachate collection pipe work be paid for? ***There is only 1 tie-in to existing, this work is incidental to Item 2300.***
24. Will the Class 4, Type C geotextile fabric required in pay items 2400, 3300, & 3320 be supplied by the contractor or Authority? ***As stated in Bid Documents the Contractor will supply.***
25. Will the woven geotextile fabric required for the duct bank be supplied by the contractor or Authority? ***No geotextile is required for the duct bank.***

26. Can a detail for the duct bank "stick ups" installed at 400' intervals be provided? ***The stickup shall be a 90 degree sweep up and 1 ft of pipe out of the ground, with a glued cap on top.***
27. Will the duct bank be tying into any existing pipe work onsite? ***NO***
28. Will sedimentation basin 3 be installed prior to the installation of culvert C-1A? Will dewatering be required by the contractor? ***Basin 3 is already in place.***
29. Confirm proposed channel C1-A will not conflict with existing buildings, structures, vegetation, duct banks, underground utilities, etc. ***It is not anticipated that a conflict will happen, the Contractor is reminded care will need to be taken in this area.***
30. Will the contractor be required to add stone or regrade any existing haul roads impacted by construction? If so, please provide additional pay items to account for this cost. ***As stated in the Bid Documents and Addendum #1, the Contractor will need to maintain the roadway through the work area for landfill traffic. Costs are to be included in Item 1300.***
31. Provide the location of 24" silt sock associated with pay item 3100. ***Installation of silt sock will be at the Owners direction.***
32. Will any topsoil stripping or replacement be required as part of this project? If so, please provide additional pay items (with quantities) to account for this cost. ***Topsoil will need to be removed stockpiled and then placed on the Rt. 41 side of the berm to be constructed as part of this contract. This work is to be included in Item 3400.***
33. If pay item 3400 is to be priced as a lump sum – please provide the limits of permanent and temporary seed mixes on a plan view so quantities can be established. Will the contractor be responsible for temporarily seeding the Authority's various stockpiles at the completion of work? If so, please include these areas in the information request above. ***Item 3400 has been updated to provide more information.***
34. Other than the matting required for pay item 3310, confirm no additional erosion matting is required for this project. If so, please provide the limits on a plan view so quantities can be established. ***Item 3400 has been updated to provide more information.***
35. Provide pipe elevations and profiles so precast catch basin costs can accurately be accounted for. ***The Contractor is to provide a minimum of 36" of cover on the pipe.***
36. Will ½" diameter pipe perforations installed 4" C-C staggered every 2" be acceptable for the leachate collection pipe? ***As stated in the Bid Documents, the Owner will be providing the HDPE pipe, which will be perforated.***

37. Will PennDOT RC24/35 or RC45/46 specifications be required for the precast catch basins? ***The Owner requires RC45/46.***
38. Where does the woven geotextile come into play for pay items 3500, 3510, & 3600? Will this material be supplied by the contractor or Authority? ***There is no need for geotextile in Items 3500, 3510 & 3600.***
39. What bid item does rip rap apron 1 get paid under? ***A Pay Item will be added.***
40. What bid item does temporary culvert T3-4T get paid under? ***Pay Item 3600.***
41. What bid item does the demolition of existing conflicting guide rail get paid under? ***The conflicting guide rail will be removed under Item 2700. If undamaged, the Contractor can reuse undamaged rail, not posts. Payment will be from new tie in point to new end.***
42. What bid item does proposed culvert C-1A get paid under? ***Pay Item 3600.***
43. What bid item does the construction of the proposed intercell berm get paid under? ***A bid Item has been added.***
44. Will this subbase quantity required for the intercell berm need to be taken into consideration for material import? If so, please provide a detail to scale (detail 9 on sheet 4 is currently NTS). ***Detail 9 on sheet 4 is missing a dimension for the flat area on top of the berm, the top of the subbase material shall be 2 ft.***
45. Will the Authority or contractor be responsible for obtaining an air quality permit to screen protective cover soil? ***If required, the Contractor must obtain the Air Permit in conjunction with Owner's Engineer.***
46. Confirm onsite fill material provided by the Authority will not need to be screened or processed. ***If the material does not meet specifications, the Contractor can move to another stockpile on site. As stated in the prebid and in the Bid Document, the Contractor is responsible for conditioning the material (dry or wetting as needed). The Contractor may need to remove large rock fragments, larger than allowed by the CQA manual. Large rock can be placed back in the Sites stockpile area. All bidders have the opportunity to determine suitability of Owner-provided soils prior to placing bid.***
47. Confirm the Authority is responsible for unloading trucks of materials they purchase and have imported to the site. If not – provide the number of semi-trailers the contractor is responsible to unload and the bid item this will be paid under. ***As stated in the Bid Documents and at the prebid, the Owner will have the supplied materials in stockpile on the landfill site. Stone will either be brought in and dumped as needed or into a stockpile.***
48. Is the contractor or Authority responsible to supply a concrete washout facility associated with the proposed concrete work? If the contractor, what bid item is this paid

under? ***As the Bid Documents state, this item is to be inclusive of all, labor, equipment, and materials to perform the work.***

49. Are there any "buy American" or US steel requirements on this project? Will non-domestically made products be acceptable to the owner? If not please provide the requirements for geosynthetics, steel, pipe, etc. ***The Contractor is to follow these type of requirements as set forth in the PennDOT Publication 408.***
50. Can the base and wearing courses of asphalt paving be completed at the same time or should separate paving mobilizations be taken into account? ***They can be completed at the same time.***
51. Will the Authority consider additional payments for material increases post bid (pipe, precast, concrete, rebar, metal guide rail, etc.) or will the contractor be responsible to calculate that risk into their bids? ***As stated in the prebid, NO.***
52. Will the Authority consider additional payments for fuel escalation per PennDOT regulations? ***As stated in the prebid, NO.***
53. Will the Authority consider additional payment for asphalt index escalation per PennDOT regulations? ***As stated in the prebid, NO.***

D. Remove and Replace

1. Remove Section Division 01000 (7 pages) dated 3/31/22, replace with Division 01000 (7 pages) dated 4/6/22
2. Remove Section 9.9 (4 pages) dated 3/31/22, replace with Section 9.9 (4 pages) dated 4/6/22.

E. Additional clarifications

1. It is expected that the Contractor will work overtime as needed to Coordinate as needed with the geosynthetic Contractor, all costs for this shall fall under Item 1300.
2. All questions must be asked by 10 am Friday 4/8/22.

END ADDENDUM NO. 2

DIVISION 01000

GENERAL REQUIREMENTS

1.1 CONSTRUCTION DOCUMENTS

The construction documents include all applicable drawings and specifications within these Contract Documents. The intent of these documents is to have the CONTRACTOR include in his price all items to completely finish the work. Any aspects of the Work which are not clearly defined by these specifications shall be governed by the rules of the best prevailing practice in the area of the Work for that class of Work as determined by the ENGINEER.

1.2 PROJECT AREA

1.2.1 The limits of disturbance for the Earthwork and Erosion & Sediment Control associated with preparation of the Phase 8A expansion are indicated on the Drawings. All surveys related to this project shall be performed by a professional land surveyor licensed in the Commonwealth of Pennsylvania at the expense of the OWNER. Any discrepancies between the staked locations and the locations or alignments indicated on the drawings are to be brought to the attention of the OWNER AND/OR CONSTRUCTION MANAGER prior to proceeding with construction. Any survey needs from the OWNER, require 3 work days notice.

1.2.2 The features shown on the contract drawings may be offset from the designated location by the CONTRACTOR to avoid surface or subsurface obstructions or impractical working conditions, provided, however, that approval is first obtained from the OWNER AND/OR CONSTRUCTION MANAGER.

1.3 REFERENCES

Bid Form

1.4 MEASUREMENT AND PAYMENT

A. GENERAL CONDITIONS

1. Pay Item 1100 - Bonds:

This item is priced at a lump sum and is to cover the CONTRACTOR'S expense of completely bonding the Work as described within the Contract Documents.

2. Pay Item 1200 – Mobilization/Demobilization:

Priced at a lump sum and is to cover the cost to mobilize and demobilize to/from the site all equipment(s), construction crew(s) and general site needs (i.e., portable toilets) to completely accomplish the Work as described within the Contract Documents.

3. Pay Item 1300 – Coordination:

Priced as a lump sum and is to cover the cost to coordinate with Liner Contractor or other weather related issues. Coordination may include establishing responsibilities for the removal of stormwater accumulated in work areas. There will be no additional payment, nor will a time extension be allowed for work delayed by

lack of coordination. *The Contractor is to include all costs for providing roadway acceptable to the Owner, access through the cell for the Owner, customers, public or other contractors.*

B. EARTHWORK

4. Pay Item 2100 –Excavation:

Excavation (cut) is priced per cubic yard of soil removed to achieve proposed grades as detailed in the Contract Documents. The price includes excavation, loading and hauling of all excavated material from other onsite areas. Quantity measurements for this item shall exclude excavation and hauling of material from a designated stockpile area, excavation associated with the sediment trap removal. Clearing will be performed by SECCRA. Grubbing shall be incidental to Pay Item 2100. Removal and stockpile of material from existing haul roads is incidental to excavation. The stockpiling of material in the designated areas at the Landfill, as directed by the CONSTRUCTION MANGER. This Item, will not be used if excavation is covered in Item 2120.

5. Pay Item 2110 – Remove Sediment Trap:

Sediment Trap removal is priced on a lump sum basis. The price includes removal of sediment trap features including baffles, outlet structures, inlet pipes and roadway pipes shown to be removed on Roman171E001A sheet 1 of 6, riprap, etc. Saturated soils shall be removed and stockpiled at locations specified by OWNER. Saturated soil material may be used by the Landfill as daily cover, if approved by OWNER.

6. Pay Item 2120 – Fill Material:

Fill Material is priced per cubic yard of soil placed as to achieve proposed grades as detailed in the Contract Documents. The price includes excavation, loading, hauling, conditioning, and placing the material. Any cost, which may be incurred to condition the soil, will be the responsibility of the CONTRACTOR. Fill material from to be supplied by SECCRA, from a stockpile. Item 2100 shall not be used, if excavation is under this Item. Rework of initial (existing) lift shall be considered incidental to this item. ALL material shall be removed from Cell 8a before using other stockpiled material.

The specific requirements for borrow material to be used for fill are outlined in Division 06000, PART 2- MATERIALS.

7. Pay Item 2130 – Subbase (Supply and Install):

Subbase is priced per square yard of subbase placed over the areas shown on the contract drawings. The price includes excavation, loading, hauling, conditioning and placing the subbase. Any cost, which may be incurred to condition or amend the subbase, will be the responsibility of the CONTRACTOR. The CONTRACTOR shall haul all materials to and from the working area unless otherwise specified.

Subbase shall be sourced off site by CONTRACTOR. Subbase must be approved by the CONSTRUCTION MANAGER. Subbase material shall meet the specific requirements outlined in Division 06000, PART 2- MATERIALS.

8. Pay Item 2140 – Expose Existing Liner System:

The Contract Unit Price per linear foot for this item shall be payment in full for all materials, labor, equipment, and incidentals required to expose and clean (broom clean) the existing liner system in Phase 7 for tie-in of the new geosynthetics. Contractor will expose a minimum continuous width as shown in the construction drawings.

9. Pay Item 2150 – Liner System Anchor Trench Excavation and Backfill:

The Contract Unit Price per linear foot for this item shall be payment in full for all materials, labor, equipment, and incidentals required to excavate, maintain, and backfill the liner system anchor trench along the top of the perimeter berm. Anchor trench will be constructed to the dimensions depicted in the construction drawings. Contractor will be responsible for maintenance and dewatering of the trench until a time that the trench can be backfilled. Backfill shall meet the minimum requirements outlined in the Technical Specifications.

10. Pay Item 2160 – SCREEN Protective Cover Soil:

Protective Cover Soil is priced per square yard of protective cover soil placed over the areas shown on the contract drawings. The price includes excavation, loading, screening, and stockpiling protective cover soil. Protective cover soil material will be supplied by SECCRA from a stockpile.

Protective cover soil material shall meet the specific requirements outlined in Division 06000, PART 2- MATERIALS.

11. Pay Item 2161 – Protective Cover Soil Placement:

Protective Cover Soil is priced per square yard of protective cover soil placed over the areas shown on the contract drawings. The price included loading, hauling, conditioning, and placing the protective cover soil. Any cost, which may be incurred to condition or amend the protective cover soil, will be the responsibility of the CONTRACTOR. The CONTRACTOR shall haul all materials to and from the stockpile area unless otherwise specified.

12. Pay Item 2170 – Leachate Collection Layer AASHTO #57:

The installation of AASHTO #57 stone for the Leachate Collection Layer shall be priced per square yards installed and is inclusive of all labor, equipment, and materials to perform the work & inclusive of continual maintenance. Additional aggregate placement required for the installation of the leachate collection pipes will be incidental to this pay item. AASHTO #57 aggregate material will be supplied by SECCRA. At a rate of 800 ton per day (24 hours). Contractor may choose to stockpile stone at it's expense.

The leachate collection layer shall meet the specific requirements outlined in Division 06000, PART 2- MATERIALS.

13. Pay Item 2180 – Stormwater Diversion Berms:

The installation of the Stormwater Diversion Berms using AASHTO #57 material shall be priced per linear foot of berm installed and is inclusive of all labor, equipment, and materials to perform the work & inclusive of continual maintenance. Additional aggregate placement required for the installation of the leachate collection pipes will be incidental to this pay item. AASHTO #57 aggregate material will be supplied by SECCRA. At a rate of 800 ton per day (24 hours). Contractor may choose to stockpile stone at it's expense.

14. Pay Item 2200 – Intercell Berm Removal:

Priced at a lump sum and is to cover the cost to remove a portion of the existing intercell berm separating Phases 7 and 8A. Item includes removal, hauling, and disposal of liner material in accordance with the CQA Plan and construction drawings. Item also includes excavation, hauling, and stockpiling of protective cover soil material in accordance with the CQA Plan and construction drawings.

15. Pay Item 2210 – Landfill Perimeter Berm Amendment:

The installation of the 2' high perimeter berm amendment shall be priced per linear foot of berm installed and is inclusive of all labor, equipment, and materials to perform the work & inclusive of continual maintenance. CONTRACTOR shall excavate the existing soils, clean off the existing liner system, and form a 2' high berm to allow the liner installer to install a liner flap as shown in the Contract Drawings. Once the liner flap is installed, the CONTRACTOR will replace the soil without damaging the underlying liner.

16. Pay Item 2300 – HDPE Leachate Collection Pipe (6" Diameter):

The installation of 6" diameter HDPE pipe is priced per linear foot installed and is inclusive of all labor, equipment and materials to perform the work & inclusive of continual maintenance throughout the duration of the contract. Incidental work under this pay item includes welding, excavation, stone bedding, backfill, and all other work and materials necessary to complete the installation of the pipe crossing as detailed on the Contract Drawings. Any necessary repair or replacement of the 6" HDPE leachate collection pipe shall be at the CONTRACTOR's expense. All piping and fittings will be supplied by SECCRA with 3 days notice. Stockpile location will be someplace on the Landfill site.

17. Pay Item 2400 – 12" Thick Layer Modified 2A Stone for Access Roads:

The installation of a 12" thick layer of modified 2A stone for perimeter berm and cell access roads shall be priced per square yards installed and is inclusive of all labor, equipment and materials to perform the work & inclusive of continual maintenance. Material covered under this pay item shall include geotextile fabric (Class 4, Type C). SECCRA will supply the Modified 2A stone material, with 3 days notice.

18. Pay Item 2500 – Paving for Access Road:

The installation of a 6" thick layer of pavement for access road shall be priced per square yards installed and is inclusive of all labor, equipment and materials to perform the work & inclusive of continual maintenance. The 6" total thickness shall consist

of a 4" basecourse and a 2" top coat. Bituminous mixes supplied under this portion of the work shall be obtained from a single source that is a Penn DOT approved plant. Changing the mix supplier during the course of the work must be approved in advance by the OWNER. This work is expected to be completed toward the end of the project at a time approved by the OWNER.

19. Pay Item 2600 – Curb for Access Road:

The installation of access road curb shall be priced per linear feet installed and is inclusive of all labor, equipment, and materials to perform the work & inclusive of continual maintenance. The 18" total thickness shall consist of an 8" reveal and 10" footer. Quantity does not include the area of the Type C inlet tops.

20. Pay Item 2700 – Guide Rail for Access Road:

The installation of a Guide Rail for access road shall be priced per linear foot installed and is inclusive of all labor, equipment, and materials to perform the work. Bid Item includes tie-in to existing guide rail and installation of bullnose end treatment.

21. Pay Item 2800 – Duct Bank:

The installation of a Duct Bank for utility conduits shall be priced per linear foot installed and is inclusive of all labor, equipment, and materials to perform the work & inclusive of continual maintenance throughout the duration of the contract. Incidental work under this pay item includes excavation, stone bedding, watertight connections, woven geotextile, backfill, compaction, and all other work and materials necessary to complete the installation of the duct bank as detailed on the Contract Drawings. All piping and fittings will be supplied by CONTRACTOR. Any necessary repair or replacement of the duct bank piping shall be at the CONTRACTOR's expense.

C. EROSION CONTROL

22. Pay Item 3100 –Silt Sock:

The installation of Silt Sock shall be priced per linear feet installed and is inclusive of all labor, equipment, and materials to perform the work & inclusive of continual maintenance.

23. Pay Item 3300 – Channel C-3:

The installation of the permanent Channel C-3 be priced per linear foot installed and is inclusive of all labor, equipment, and materials including geotextile fabric (Class 4, Type C) to perform the work & inclusive of continual maintenance as indicated by the detailed sequence of construction on the Contract Drawings. The Excavation that is required to construct permanent Channel C-3 will be paid for under Item 2100. SECCRA will supply the R-3 riprap lining material, with 3 days notice.

24. Pay Item 3310 – Channel TC-2:

The installation of the temporary Channel TC-2 be priced per linear foot installed and is inclusive of all labor, equipment, and materials including erosion control

matting and seeding to perform the work & inclusive of continual maintenance as indicated by the detailed sequence of construction on the Contract Drawings. The Excavation that is required to construct temporary channel TC-2 will be paid for under Item 2100.

25. Pay Item 3320 – Channel C-1A:

The installation of the permanent Channel C-1A be priced per linear foot installed and is inclusive of all labor, equipment, and materials including geotextile fabric (Class 4, Type C) to perform the work & inclusive of continual maintenance as indicated by the detailed sequence of construction on the Contract Drawings. The Excavation that is required to construct permanent Channel C-1A will be paid for under Item 2100. SECCRA will supply the R-5 riprap lining material, with 3 days notice.

26. Pay Item 3400 - Erosion Control and Seeding:

Erosion Control and Seeding is priced on a lump sum basis. CONTRACTOR is responsible for the seeding, fertilizing, and mulching of any disturbed areas to meet or exceed 95% grass cover. This task shall consist of the minimum requirements: seeding, mulching and fertilizer to provide a dense vegetative growth. CONTRACTOR must also verify proper erosion control measures are in place during construction and to optimize reseeding efforts. At a minimum the Contractor shall include, removal and stockpiling of topsoil from cell 8a footprint, placement of that topsoil on the Rt 41 side of berm built by the Contractor, permanent seeding on topsoil placed.

27. Pay Item 3500 – 2'x4' Catch Basins:

The installation of 2'x4' catch basins is priced per unit installed and is inclusive of all labor, equipment, and materials to perform the work & inclusive of continual maintenance throughout the duration of the contract. Incidental work under this pay item includes excavation, stone bedding, watertight connections, woven geotextile, backfill, compaction, and all other work and materials necessary to complete the installation of the piping as detailed on the Contract Drawings. Type C inlet top.

28. Pay Item 3510 – 4'x4' Catch Basins:

The installation of 4'x4' catch basins is priced per unit installed and is inclusive of all labor, equipment, and materials to perform the work & inclusive of continual maintenance throughout the duration of the contract. Incidental work under this pay item includes excavation, stone bedding, watertight connections, woven geotextile, backfill, compaction, and all other work and materials necessary to complete the installation of the piping as detailed on the Contract Drawings. Type C inlet top.

29. Pay Item 3600 – HDPE PIPE (42" Diameter):

The installation of 42" diameter HDPE pipe (water tight type) is priced per linear foot installed and is inclusive of all labor, equipment, and materials to perform the work & inclusive of continual maintenance throughout the duration of the contract. Incidental work under this pay item includes excavation, stone bedding, watertight connections, woven geotextile, backfill, compaction, flared end sections and all other work and materials necessary to complete the installation of the piping as detailed on the Contract Drawings. All piping and fittings will be supplied by SECCRA. Any

necessary repair or replacement of the 42" HDPE storm pipe shall be at the CONTRACTOR's expense.

D. ADDITIONAL

30. Pay Item 4000 – Contingency Allowance

The Contractor is to include a stipulated sum/price for use upon the Owner's instruction Funds will be drawn from this item only by Change Order with proper authorizations. At closeout of Contract, funds remaining in this Item will be credited to the Owner by Change Oder.

31. Pay Item 5000 – Rip Rap Apron Placement

The installation of Rip Rap Apron Placement shall be priced per square yard installed and is inclusive of all labor, equipment, and materials (Geotextile by Contractor – Rip Rap by Owner) to perform the work & inclusive of continual maintenance.

32. Pay Item 6000 – Intercell Berm (Detail 9 on Sheet 4)

The installation of Intercell Berm shall be priced per linear feet installed and is inclusive of all labor, equipment, and materials to perform the work & inclusive of continual maintenance. This work includes all work above the subbase layer.

1.5 PIPES, CABLES, AND UNDERGROUND STRUCTURES

It shall be the CONTRACTOR's responsibility to ascertain the location of all pipes, cables and underground structures in the area of the contractor's operation, and to employ the necessary precautions to avoid them during earthwork, haul road construction and installation of erosion and sediment controls or other work associated with the contract. It shall be the CONTRACTORS responsibility to use Pennsylvania One Call System before any work begins.

If it is established that the work associated with this contract will cause interference with an underground facility or structure, the CONTRACTOR shall so advise the OWNER AND/OR CONSTRUCTION MANAGER. At his discretion, the OWNER AND/OR CONSTRUCTION MANAGER may designate a new location or authorize omission.

1.6 PROTECTION OF WORK, PERSONS AND PROPERTY

The CONTRACTOR shall provide and maintain any barricades, lights or other safety devices necessitated by hazardous conditions, required by local authority, or deemed necessary by the OWNER AND/OR CONSTRUCTION MANAGER representative.

1.7 PERMITS

All permits and licenses, relative to CONTRACTOR's equipment and work shall be obtained by CONTRACTOR at his expense including all costs for detailed Engineering, engineering stamps, drawings, testing, certifications, or other items necessary to secure said licenses and permits. This excludes environmental permits (e.g., NPDES Discharge Permit or Air Pollution Permit) and site-specific permits (e.g. local).

1.8 WATER ENCOUNTERED IN WORK

CONTRACTOR shall notify OWNER if any water is encountered during excavation or other earthwork activities. No water shall be discharged to surface ditches. Excessive amounts of water (enough to significantly hamper normal construction operations) encountered during excavation activities is to be handled as directed by the OWNER AND/OR CONSTRUCTION MANAGER. This does not apply to surface conditions or surface waters that are allowed to enter open excavations.

1.9 AUTHORIZED REPRESENTATIVE OF THE OWNER

"Authorized Representative of the OWNER" shall mean the following individual, who has the authority to execute a Change Order on behalf of the OWNER:

John Robbins, Chairman of the Board of Directors
c/o Scott Mengle, General Manager
219 Street Road,
West Grove, PA 19390
E-Mail: Scott@seccra.org
Phone: (610) 869-2452
Fax: (610) 869-8064

1.10 ENGINEER

ENGINEER shall mean the following individual, whom shall be the technical representative of the OWNER:

Patrick Wozinski, P.E.
BAI Group
366 Walker Drive, Suite 300
State College, PA 16801
E-Mail: pwozinski@baigroupllc.com
Phone: (814) 238-2060
Fax: (814) 238-7123

1.11 CONSTRUCTION MANAGER

CONSTRUCTION MANAGER shall mean the following individual, whom shall be representative of the OWNER:

Alan Roman
Roman Consulting, Inc.
P.O. Box 106
Oley, PA 19547
E-Mail: roman543@aol.com
Phone: (610) 587-9240

1.12 GENERAL SAFETY CONSIDERATIONS

- A.** Workers shall be advised of the presence of methane or hydrogen sulfide gas emanating from the natural decomposition of refuse buried at or near the job site and take precautions to ensure the safety of workers and the public.
- B.** Workers shall not be allowed to work alone at any time in an excavation. Work parties of at least two shall be mandatory, with one worker outside of trench. Access to the

open trench shall be via ladders spaced no further than 25 feet apart at a minimum (or as required by OSHA). Trenches shall be benched to prevent possible caving in on workers.

- C. No arc welding shall be permitted in trenches, enclosed areas, or over refuse filled areas unless performed over ground mats or in areas of the site approved by the Safety Monitor and Construction Manager.
- D. Workmen shall not be permitted to enter excavations where there is an oxygen deficiency (oxygen levels below 19.5% by volume) or a combustible mixture of methane (methane levels between 5 and 15% by volume) without taking precautionary measures.
- E. All trenches shall be covered or completed at the end of each work day.
- F. All boreholes shall be completed at the end of each work day.
- G. Smoking shall be prohibited in or near open excavations and in the vicinity of pipe-laying activities. Smoking is prohibited anywhere onsite except in designated areas.
- H. Fire extinguishers shall be available and rated at least A, B and C and are at least 10-pound size.
- I. Landfill gas (LFG) is comprised of approximately equal portions of carbon dioxide (CO₂) and methane (CH₄) with other trace constituents. It is a product formed by the anaerobic decomposition of refuse. Methane gas is the primary component of natural gas, and is combustible when the methane concentration in air is between 5 and 15 percent by volume. The 5 percent level is called the lower explosive limit (LEL). Below 5 percent, there is insufficient methane for combustion. Above 15 percent, called the upper explosive limit (UEL), there is insufficient oxygen for combustion. However, it is important to note that a concentration of methane above 15 percent is considered at least as dangerous as a concentration between 5 and 15 percent, because as the methane dilutes with air, it will pass through the explosive range. When gas concentrations are low, it is common to express methane concentration as a percentage of the LEL. For example, 100 percent LEL is 5 percent methane in air, and 50 percent LEL is 2.5 percent methane in air. Because the decomposition of buried refuse typically produces methane at concentrations ranging from 40 to 55 percent, methane will always pass through the combustible range as it vents to the atmosphere and dilutes with air. Methane is lighter than air, and will rise in the absence of typical barriers. LFG, being a mixture of methane and carbon dioxide, may be heavier than or lighter than air depending on the specific mixture. LFG may escape from the refuse, both vertically through the landfill cover, and laterally through surrounding soils. LFG moves in response to the pressure buildup within the landfill and through diffusion in the absence of a pressure differential. Diffusive movement nearly always produces explosive range concentrations of methane.

CONTRACTOR shall cease construction activities or operations when any concentration of methane at or above 10% LEL is present.

1.13 PRECAUTIONS WHEN WORKING ON REFUSE LANDFILLS

- A.** Workers shall avoid contact with exposed refuse where possible. Irritants or hazardous materials may be present.
- B.** Workers shall not leave open wells or excavations unattended. Open boreholes and excavations must be covered to prevent accidental entry. Wells must be barricaded, flagged, and protected sufficiently to prevent entry of dirt and run off water.
- C.** The CONTRACTOR shall provide such equipment and medical facilities as are necessary to supply basic first aid to anyone who may be injured in connection with the Work. In an event immediate removal and/or hospitalization of site personnel is required the CONTRACTOR shall contact 911.
- D.** The OWNER AND/OR CONSTRUCTION MANAGER may stop the Work if in his sole judgment safety laws, or safe work practices are not being observed; provided, however, that none of the foregoing shall relieve the CONTRACTOR from being fully responsible and liable for meeting all safety laws and safe work practices in connection with the Work nor should the failure of such persons to stop the Work be construed to mean that all safety laws and safe work practices are being met. Notwithstanding the above, the CONTRACTOR is solely responsible for the compliance with safety laws and maintaining safe work practices.

END OF DIVISION 01000

BID FORM

For: EARTHWORK Cell 8a

SOUTHEASTERN CHESTER COUNTY REFUSE AUTHORITY
219 Street Road
West Grove, PA 19390

Attention: Mr. Scott Mengle

Gentlemen:

In conformity with the specifications as prepared by Southeastern Chester County Refuse Authority, 219 Street Road, West Grove, Pennsylvania 19390 and after an examination of these Bid Documents, the undersigned submits this bid.

It is hereby certified that the undersigned is (are) the only person(s) interested in this bid as principal or officer, and that this proposal is made without collusion with any person, firm or corporation. The undersigned further guarantees that, if awarded a contract, the bidder will furnish and deliver all materials and perform all labor, tools, tests, and services required to execute, in an expeditious, substantial and workmanlike manner, the requirements of and in accordance with the specifications, to the complete satisfaction and acceptance of SECCRA.

It is understood that SECCRA reserves the right to reject any or all bids, or parts thereof, or items therein and to waive technicalities. It is further understood that competency and responsibility of bidders will receive consideration before the award of the contract.

Bidder submits this bid with the understanding that the materials and/or services will be delivered on or before the date stated in this proposal and that the time for the delivery of the materials and/or services shall be considered as of the essence of this contract. It is further understood, however, that any extension of time, regardless of cause, beyond the agreed date, must be requested by letter from the supplier and any extension must be granted by letter from SECCRA prior to same becoming effective.

The Bidder agrees not to assign this bid or any rights or interests thereunder without the written consent of SECCRA.

The undersigned acknowledges receipt of the following addenda, and the cost, if any, of such revisions has been included in the bid sum:

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

BID FORM (continued)

The undersigned Bidder proposes and agrees, if this Bid is accepted, to perform and furnish all the Work as specified in the Bidding Documents within the Contract Times indicated in this Bid and in accordance with all other terms and conditions of the Bidding Documents for the prices written below:

Project: EARTHWORK Cell 8a

Item No.	Description See Section 6.1 for detail	Unit Type	Units	Cost per unit	Bid price
1100	Bonds	1	Ea.		
1200	Mob/Demob/Field General Conditions, etc.	1	Ea.		
1300	Coordination	1	Ea.		
2100	Excavation	35,000	C.Y.		
2110	Remove Sediment Trap	1	L.S.		
2120	Fill Material	28,800	C.Y.		
2130	Subbase	31,150	S.Y.		
2140	Expose Existing Liner System	1,000	L.F.		
2150	Liner System Anchor Trench Excavation and Backfill	1,650	L.F.		
2160	Protective Cover Soil Screen	31,150	S.Y.		
	Protective Cover Soil Placement	31,150	S.Y.		
2170	Leachate Collection Layer AASHTO #57	31,150	S.Y.		
2180	Stormwater Diversion Berm	1,850	L.F.		
2200	Intercell Berm Removal	1	L.S.		
2210	Landfill Perimeter Berm Amendment	250	L.F.		
2300	HDPE Leachate Collection Pipe (6" Diameter)	2,750	L.F.		
2400	12" Thick Layer Modified 2A Stone for Access Roads	4,200	S.Y.		
2500	Paving for Access Road	7,300	S.Y.		
2600	Curb for Access Road	1,500	L.F.		
2700	Guide Rail for Access Road	1,300	L.F.		
2800	Duct Bank	1,500	L.F.		
3100	Silt Sock	2,500	L.F.		
3300	Channel C-3	300	L.F.		
3310	Channel TC-2	450	L.F.		
3320	Channel C-1A	325	L.F.		
3400	Erosion Control and Seeding	1	L.S.		
3500	2'x4' Catch Basin	6	E.A.		
3510	4'x4' Catch Basin	3	E.A.		
3600	HDPE Pipe (42" Diameter)	1,600	L.F.		
4000	Contingency	1	L.S.	35,000.00	35,000.00
5000	Rip Rap Apron Placement	100	S.Y.		
6000	Intercell Berm	600	L.F.		
			TOTAL BID		

Contract time shall be 180 calendar days from Notice to Proceed.

Firm Name _____
Contact Person _____
Address _____
Telephone _____
Authorized Signature(s) _____

_____ Print _____ Print

EQUIPMENT RATES

Project Name: EARTHWORK Cell 8a

The following Equipment Rates shall be used to adjust the actual value of the subcontract and as a basis for any additional work. These Equipment Rates shall include all normal routine maintenance (labor & materials), fuel, taxes, insurances, overhead and profit.

DESCRIPTION	(\$) Hourly Rate	(\$) Daily Rate	(\$) Weekly Rate	(\$) Monthly Rate
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
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_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

MATERIAL SUPPLIERS

Project Name: EARTHWORK Cell 8a

SUBCONTRACTOR LIST

Please list below all material suppliers who will be supplying more than two thousand dollars (\$2,000.00) of material to this project. Failure to furnish this information will affect payment under this contract.

<u>Name/Address</u>	<u>Telephone</u>	<u>Material Supplied</u>	<u>Value</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____